therefore also the demands which will be placed on the chambers for preheating the air are able to be considerably higher than when employing bad gas.
Summarising the results obtained
Highest Limit Values. Best producer Gas from Gas Coal.
Lowest Limit Values.
Conceivable worst producer Gas from good
Gas Coal.
1 cbm. gas requires . 1'96 1 „ develops. 1,507 cals. The products of combustion of gas containing 1 kg. C are : — C021-86 cbm. + 0, O63 cbm. + N 10-23 cbm. + steam 0-98 cbm. N.B. The content of free oxygen
is ascertained as under :— 0 introduced . . 1*99 cbm. 0 theoretically n%eces-sary . . . 1*36 „
0 excess
. 0-63 cbm.
The steam content of the gas is
ascertained as follows : — Steam from the pro-
ducts of combustion 0-73 cbm. Steam as un decom-
posed steam . . — From the humidity of
the air 1-89 x 5-01 x
0-026 .
= 0-25
Total
0-98 cbm.
1*14 cubic metre air. 827 calories.
CO21-86 cbm. x O 0'63 cbm. + N 10-23 cbm. + steam 113 cbm.
1*56 cubic metre. 0-93
0*63 cubic metre.
0-73 cbm. (041 + 0-32 cbm.) 0-21 „
019 „ (1*11x6-65x0026). 1*13 cbm. steam.